#### PATENT COOPERATION TREATY

#### From the INTERNATIONAL SEARCHING AUTHORITY

10.	
AVECIA LIM	ITED
Attn. Morpe	eth, Fraser Forrest
Intellectua	al Property Group
P.O. Box 42	2, Hexagon House
Plackley 1	Manchester MQ 979

NOTIFICATION OF TRANSMITTAL OF

Attn. Morpeth, Fraser Forrest Intellectual Property Group P.O. Box 42, Hexagon House Blackley, Manchester M9 8ZS UNITED KINGDOM	THE INTERNATIONAL SEARCH REPORT AND THE WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY, OR THE DECLARATION
i	(PCT Rule 44.1)
	Date of mailing (day/month/year) 02/09/2004
Applicant's or agent's file reference	
SMC 60607/WO	FOR FURTHER ACTION See paragraphs 1 and 4 below
International application No.	International filing date
PCT/GB2004/002854	(day/month/year) 02/07/2004
Applicant	
AVECIA LIMITED	
The applicant is hereby notified that the international search	report and the written opinion of the international Searching

1	لعا	The applicant is hereby notified that the international search report and the written opinion of the International Searching Authority have been established and are transmitted herewith.
		Filing of amendments and statement under Article 19: The applicant is entitled, if he so wishes, to amend the claims of the International Application (see Rule 46):
		When? The time limit for filing such amendments is normally 2 months from the detail of the international Search Report; however, for more details, see the notes on the accompanying sheet.
		Where? Directly to the International Bureau of WIPO, 34 chemin des Colombettes 1211 Geneva 20, Switzerland, Fascimile No.: (41–22) 740.14.35
		For more detailed instructions, see the notes on the accompanying sheet.
2.		The applicant is hereby notified that no international search report will be established and that the declaration under Article 17(2)(a) to that effect and the written opinion of the International Searching Authority are transmitted herewith.
3.		With regard to the protest against payment of (an) additional fee(s) under Rule 40.2, the applicant is notified that:
		the protest together with the decision thereon has been transmitted to the international Bureau together with the applicant's request to forward the texts of both the protest and the decision thereon to the designated Offices.
		no decision has been made yet on the protest, the applicant will be notified as soon as a decision is made.
4.	Remi	
	Interr applic	dy after the expiration of 18 months from the priority date, the international application will be published by the international Bureau. If the applicant wishes to avoid or postpone publication, a notice of with the applicant wishes to avoid or postpone publication, a notice of with the international Bureau as provided in Rules 90bs and 90bs 3, respectively, a the completion of the technical preparations for international publication.
	intern intern	upplicant may submit comments on an informal basis on the written opinion of the International Searching Authority to the lational Bureau. The International Bureau will send a copy of such comments to all designated Offices unless an autonal preliminary examination report has been or is to be established. These comments would also be made available to ablic but not before the expiration of 30 months from the priority date.
	exami	n 19 months from the priority date, but only in respect of some designated Offices, a demand for international preliminary ination must be filed if the applicant wishes to postpone the entry into the national phase until 30 months from the priority in some Offices even later); otherwise, the applicant must, within 20 months from the priority date, perform the prescribed or entry into the national phase before those designated Offices.
	In res month	pect of other designated Offices, the time limit of 30 months (or later) will apply even if no demand is filed within 19 is.
		ne Annex to Form PCT/IB/301 and, for details about the applicable time limits, Office by Office, see the <i>PCT Applicant's</i> , Volume II, National Chapters and the WIPO Internet site.

Name and mailing address of the International Searching Authority
European Patent Office, P.B. 5818 Patentiaan 2
NI -2280 HV Riiswiik

Maria Cajide

Authorized officer

Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016

#### NOTES TO FORM PCT/ISA/220

These Notes are intended to give the basic instructions concerning the filing of amendments under article 19. The Notes are based on the requirements of the Patent Cooperation Treaty, the Regulations and the Administrative Instructions under that Treaty. In case of discrepancy between these Notes and those requirements, the latter are applicable. For more detailed information, see also the PCT Applicant's Guide, a publication of WIPO.

In these Notes, "Article", "Rule", and "Section" refer to the provisions of the PCT, the PCT Regulations and the PCT Administrative Instructions respectively.

#### INSTRUCTIONS CONCERNING AMENDMENTS UNDER ARTICLE 19

The applicant has, after having received the international search report, one opportunity to amend the claims of the international application. It should however be emphasized that, since all parts of the international application (claims, description and drawings) may be amended during the international preliminary examination procedure, there is usually no need to file amendments of the claims under Article 19 except where, e.g. the applicant wants the latter to be published for the purposes of provisional protection or has another reason for amending the claims before international phulication. Furthermore, it should be emphasized that provisional protection is available in some States only.

#### What parts of the international application may be amended?

Under Article 19, only the claims may be amended.

During the international phase, the claims may also be amended (or further amended) under Article 34 before the International Preliminary Examining Authority. The description and drawings may only be amended under Article 34 before the International Examining Authority.

Upon entry into the national phase, all parts of the international application may be amended under Article 28 or, where applicable, Article 41.

#### When?

Within 2 months from the date of transmittal of the international search report or 16 months from the priority date, whichever time limit expires later. It should be noted, however, that the amendments will be considered as having been received on time if they are received by the International Bureau after the expiration of the applicable time limit but before the completion of the technical preparations for international publication (Rule 46.1).

#### Where not to file the amendments?

The amendments may only be filed with the International Bureau and not with the receiving Office or the International Searching Authority (Rule 46.2).

Where a demand for international preliminary examination has been is filed, see below.

#### How?

Either by cancelling one or more entire claims, by adding one or more new claims or by amending the text of one or more of the claims as filed.

A replacement sheet must be submitted for each sheet of the claims which, on account of an amendment or amendments, differs from the sheet originally filed.

All the claims appearing on a replacement sheet must be numbered in Arabic numerals. Where a claim is cancelled, no renumbering of the other claims is required. In all cases where claims are renumbered, they must be renumbered consecutively (Administrative Instructions, Section 205(b)).

The amendments must be made in the language in which the international application is to be published.

#### What documents must/may accompany the amendments?

#### Letter (Section 205(b)):

The amendments must be submitted with a letter.

The letter will not be published with the international application and the amended claims. It should not be confused with the "Statement under Article 19(1)" (see below, under "Statement under Article 19(1)").

The letter must be in English or French, at the choice of the applicant. However, if the language of the international application is English, the letter must be in English; if the language of the international application is French, the letter must be in French.

#### NOTES TO FORM PCT/ISA/220 (continued)

The letter must indicate the differences between the claims as filed and the claims as amended. It must, in particular, indicate, in connection with each claim appearing in the international application (it being understood that identical indications concerning several claims may be grouped), whether

- (i) the claim is unchanged;
- (ii) the claim is cancelled;
- (iii) the claim is new;
- (iv) the claim replaces one or more claims as filed;
- (v) the claim is the result of the division of a claim as filed.

### The following examples litustrate the manner in which amendments must be explained in the accompanying letter:

- [Where originally there were 48 claims and after amendment of some claims there are 51]:
  "Claims 1 to 29, 31, 32, 34, 35, 37 to 48 replaced by amended claims bearing the same numbers; claims 30, 33 and 36 unchanged; new claims 49 to 51 added."
- [Where originally there were 15 claims and after amendment of all claims there are 11]: "Claims 1 to 15 replaced by amended claims 1 to 11."
- [Where originally there were 14 claims and the amendments consist in cancelling some claims and in adding new claims]: "Claims 1 to 6 and 14 unchanged; claims 7 to 13 cancelled; new claims 15, 16 and 17 added." or
  - "Claims 1 to 6 and 14 unchanged; claims 7 to 13 cancelled; new claims 15, 16 and 17 added." or "Claims 7 to 13 cancelled; new claims 15, 16 and 17 added; all other claims unchanged."
- [Where various kinds of amendments are made]:
   "Claims 1-10 unchanged; claims 11 to 13, 18 and 19 cancelled; claims 14, 15 and 16 replaced by amended claim 14; claim 17 subdivided into amended claims 15, 16 and 17; new claims 20 and 21 added."

#### "Statement under article 19(1)" (Rule 46.4)

The amendments may be accompanied by a statement explaining the amendments and indicating any impact that such amendments might have on the description and the drawings (which cannot be amended under Article 19(1)).

The statement will be published with the international application and the amended claims.

It must be in the language in which the international appplication is to be published.

It must be brief, not exceeding 500 words if in English or if translated into English.

It should not be confused with and does not replace the letter indicating the differences between the claims as filed and as amended, it must be filed on a separate sheet and must be identified as such by a heading, preferably by using the words "Statement under Article 19(1)."

It may not contain any disparaging comments on the international search report or the relevance of citations contained in that report. Reference to citations, relevant to a given claim, contained in the international search report may be made only in connection with an amendment of that claim.

#### Consequence if a demand for international preliminary examination has already been filed

If, at the time of filing any amendments under Article 19, a demand for international preliminary examination has already been submitted, the applicant must preferably, at the same time of filing the amendments with the International Bureau, also file a copy of such amendments with the International Preliminary Examining Authority (see Rule 62.2(a), first sentence).

#### Consequence with regard to translation of the international application for entry into the national phase

The applicant's attention is drawn to the fact that, where upon entry into the national phase, a translation of the claims as amended under Article 19 may have to be turnished to the designated/elected Offices, instead of, or in addition to, the translation of the claims as filed.

For further details on the requirements of each designated/elected Office, see Volume II of the PCT Applicant's Guide.

#### **PATENT COOPERATION TREATY**

### **PCT**

#### INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference	FOR FURTHER	see Form PCT/ISA/220					
SMC 60607/WO	ACTION as w	ell as, where applicable, item 5 below.					
International application No.	International filing date (day/month/year)	(Earliest) Priority Date (day/month/year)					
PCT/GB2004/002854	02/07/2004	18/07/2003					
Applicant							
AVECIA LIMITED							
This International Search Report has been according to Article 18. A copy is being tra	prepared by this international Searching Annumentation of the International Bureau.	uthority and is transmitted to the applicant					
This International Search Report consists	of a total ofsheets.						
l —	a copy of each prior art document cited in th	is report.					
Basis of the report							
	nternational search was carried out on the b less otherwise indicated under this item.	asis of the international application in the					
The international s this Authority (Rule		slation of the international application furnished to					
b. With regard to any nucleo	tide and/or amino acid sequence disclose	d in the international application, see Box No. I.					
2. Certain claims were foun	d unsearchable (See Box II).						
3. Unity of invention is lack	ing (see Box III).						
4. With regard to the title,		No.					
X the text is approved as sub	mitted by the applicant.						
=	ed by this Authority to read as follows:						
5. With regard to the abstract,							
X the text is approved as subm	nitted by the applicant.						
the text has been establishe may, within one month from	d, according to Rule 38.2(b), by this Authori the date of mailing of this international sear	ty as it appears in Box No. IV. The applicant th report, submit comments to this Authority.					
6. With regards to the drawings,							
	a. the figure of the drawings to be published with the abstract is Figure No.						
as suggested by the	applicant.						
	uthority, because the applicant failed to sug						
	uthority, because this figure better character	izes the invention.					
b. X none of the figures is to be p	udished with the abstract.						

#### INTERNATIONAL SEARCH REPORT

International Application No PCT/GB2004/002854

A. CLASSIFICATION OF SUBJECT MATTER IPC 7 C09B47/06 C09E C09D11/00 C09B47/26 C09B67/22 According to International Patent Classification (IPC) or to both national classification and IPC B. FIELDS SEARCHED Minimum documentation searched (classification system followed by classification symbols) CO9B CO9D IPC 7 Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched Electronic data base consulted during the international search (name of data base and, where practical, search terms used) EPO-Internal C. DOCUMENTS CONSIDERED TO BE RELEVANT Citation of document, with indication, where appropriate, of the relevant passages Relevant to claim No. Category \* US 2001/011396 A1 (CARR KATHRYN) 1-14 X 9 August 2001 (2001-08-09) claim 1; example 8 1-5,7-14 WO 01/66647 A (PATEL PRAKASH; AVECIA LTD X (GB); WIGHT PAUL (GB)) 13 September 2001 (2001-09-13) claims 7-14 WO 01/66648 A (PATEL PRAKASH; AVECIA LTD 1-5,7-14 X (GB); WIGHT PAUL (GB)) 13 September 2001 (2001-09-13) examples 1,4; tables WO 03/068866 A (PATEL PRAKASH; AVECIA LTD 1-3,7-14P,X (GB)) 21 August 2003 (2003-08-21) examples 2,6,7Further documents are listed in the continuation of box C. Patent family members are listed in annex. X Special categories of cited documents: "T" later document published after the international filing date or priority date and not in conflict with the application but "A" document defining the general state of the art which is not cited to understand the principle or theory underlying the considered to be of particular relevance invention "E" earlier document but published on or after the international "X" document of particular relevance; the claimed invention filling date cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such docucitation or other special reason (as specified) "O" document referring to an oral disclosure, use, exhibition or ments, such combination being obvious to a person skilled in the art. other means \*P\* document published prior to the international filing date but later than the priority date claimed \*&\* document member of the same patent family Date of mailing of the international search report Date of the actual completion of the international search 02/09/2004 24 August 2004 Name and mailing address of the ISA **Authorized officer** European Patent Office, P.B. 5818 Patentiaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016 Ketterer, M

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#### INTERNATIONAL SEARCH REPORT

International Application No
PCT/GB2004/002854

		PCT/GB2004/002854
	etion) DOCUMENTS CONSIDERED TO BE RELEVANT	
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WO 98/49239 A (CARR KATHRYN ; ZENECA LTD (GB)) 5 November 1998 (1998-11-05) claims; examples 1,4; tables	1-14
X	WO 98/49240 A (CARR KATHRYN ; ZENECA LTD (GB)) 5 November 1998 (1998-11-05) example 8	1-14
P,A	WO 2004/035701 A (PATEL PRAKASH; AVECIA LTD (GB)) 29 April 2004 (2004-04-29) the whole document	1-14
P,A	WO 2004/035700 A (PATEL PRAKASH; AVECIA LTD (GB)) 29 April 2004 (2004-04-29) the whole document	1-14
P,A	WO 03/089532 A (PATEL PRAKASH; AVECIA LTD (GB); HORROBIN TINA MARGARET (GB)) 30 October 2003 (2003-10-30) claims 6,7	1-14
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#### INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No
PCT/GB2004/002854

				T		
	Patent document ed in search report		Publication date		Patent family member(s)	Publication date
US	2001011396	A1	09-08-2001	AU	6928498 A	24-11-1998
				DE	69808899 DI	
				EP	0975698 A	02-02-2000
				WO	9849240 A	l 05-11-1998
				JP	2001526649 T	18-12-2001
WC	0166647	Α	13-09-2001	AU	3207501 A	17-09-2001
				AU	3208901 A	17-09-2001
				WO	0166647 A1	
				MO	0166649 A1	13-09-2001
WO	0166648	Α	13-09-2001	AU	3208001 A	17-09-2001
				WO	0166648 A1	13-09-2001
WO	03068866	Α	21-08-2003	WO	03068866 A1	21-08-2003
WO	9849239	Α	05-11-1998	AU	6928398 A	24-11-1998
			•	DE	69809043 D1	05-12-2002
				EP	0979253 A1	16-02-2000
				WO	9849239 A1	05-11-1998
				JP	2001524148 T	27-11-2001
				US	6190422 B1	20-02-2001
WO	9849240	Α	05-11-1998	AU	6928498 A	24-11-1998
				DE	69808899 D1	28-11-2002
				EP	0975698 A1	02-02-2000
				WO	9849240 A1	05-11-1998
				JP	2001526649 T	18-12-2001
				US	2001011396 A1	09-08-2001
WO	2004035701	Α	29-04-2004	WO	2004035701 A1	29-04-2004
WO	2004035700	Α	29-04-2004	WO	2004035700 A1	29-04-2004
NO	03089532	Α	30-10-2003	WO	03089532 A1	30-10-2003

#### PATENT COOPERATION TREATY

From the INTERNATIONAL SEARCHING AUTHORITY To: WRITTEN OPINION OF THE see form PCT/ISA/220 INTERNATIONAL SEARCHING AUTHORITY (PCT Rule 43bis.1) Date of mailing (day/month/year) see form PCTASA/210 (second sheet) Applicant's or agent's file reference FOR FURTHER ACTION see form PCT/ISA/220 See paragraph 2 below International filing date (day/month/year) Priority date (day/month/year) International application No. 18.07.2003 02.07.2004 PCT/GB2004/002854 International Patent Classification (IPC) or both national classification and IPC C09B47/06, C09B47/26, C09B67/22, C09D11/00 Applicant **AVECIA LIMITED** This opinion contains indications relating to the following items: ☑ Box No. I Basis of the opinion Box No. II **Priority** Non-establishment of opinion with regard to novelty, inventive step and industrial applicability ☐ Box No. III Lack of unity of invention ☐ Box No. IV Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement Box No. VI Certain documents cited Certain defects in the international application ☐ Box No. VII Box No. VIII Certain observations on the international application **FURTHER ACTION** If a demand for international preliminary examination is made, this opinion will usually be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA"). However, this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notifed the International Bureau under Rule 66.1 bis(b) that written opinions of this International Searching Authority will not be so considered. If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of three months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later. For further options, see Form PCT/ISA/220. For further details, see notes to Form PCT/ISA/220.



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Ketterer, M

**Authorized Officer** 

Telephone No. +31 70 340-3645



Name and mailing address of the ISA:

## WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No. PCT/GB2004/002854

-						
-	E	Box No.	Basis of the opinion			
<ol> <li>With regard to the language, this opinion has been established on the basis of the international application the language in which it was field, unless otherwise indicated under this item.</li> </ol>						
		langu	opinion has been established on the basis of a translation from the original language into the following lage , which is the language of a translation furnished for the purposes of international search or Rules 12.3 and 23.1(b)).			
2	. W	lith regar	nd to any nucleotide and/or amino acid sequence disclosed in the international application and to the claimed invention, this opinion has been established on the basis of:			
	a.	type of	material:			
		□ as	sequence listing			
		□ tat	ple(s) related to the sequence listing			
	b.	format o	of material:			
		□ in v	written format			
			computer readable form			
	C.	time of fi	ling/furnishing:			
		□ con	tained in the international application as filed.			
		☐ filed	d together with the international application in computer readable form.			
		☐ furr	sished subsequently to this Authority for the purposes of search.			
3.		copies	tion, in the case that more than one version or copy of a sequence listing and/or table relating thereto en filed or furnished, the required statements that the information in the subsequent or additional is identical to that in the application as filed or does not go beyond the application as filed, as riate, were furnished.			
4.	Ade	ditional c	omments:			

### WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No. PCT/GB2004/002854

Double II. Delante					
Box No. II Priority					
1.   The following document	has not bee	en fumish	ed:		
	er applicatio	n whose	priority has been claimed (Rule 43bis.1 and 66.7(a)).		
☐ translation of the	earlier app	lication w	hose priority has been claimed (Rule 43bis.1 and 66.7(b)).		
Consequently it has not to nevertheless been estable	been possib lished on th	e assump	sider the validity of the priority claim. This opinion has oftion that the relevant date is the claimed priority date.		
This opinion has been established as if no priority had been claimed due to the fact that the priority claim has been found invalid (Rules 43 <i>bis</i> .1 and 64.1). Thus for the purposes of this opinion, the international filing date indicated above is considered to be the relevant date.					
3. Additional observations, if nec	essary:				
			·		
Box No. V Reasoned state	ement unde	er Rule 4	3bis.1(a)(i) with regard to novelty, inventive step or		
Statement	ions and e	xpianatio	ons supporting such statement		
1. Statement					
Novelty (N)	Yes:	Claims			
	No:	Claims	1-14		
Inventive step (IS)	Yes:	Claims			
	No:	Claims	1-14		
Industrial applicability (IA)	Yes:	Claims	1-14		
	No:	Claims			
. Citations and explanations					
•					
see separate sheet					
Box No. VI Certain documer	nts cited				
Certain published documents (F	Rules 43 <i>bis.</i>	1 and 70.	.10)		
and /or					
Non-written disclosures (Rules 4	405/- 4 4	70.0\			

see form 210

# WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY (SEPARATE SHEET)

Reference is made to the following documents:

D1: US -A- 2001011396 D2: WO -A- 01/66647 D3: WO -A- 01/66648 D4: WO -A- 03/068866 D5: WO -A-98/49239 D6: WO -A- 98/49240

- 1. The present application does not meet the criteria of Article 33(1) PCT, because the subject-matter of claims 1-14 is not new in the sense of Article 33(2) PCT.
- 1.1. Claim 1 (in connection with example 8) of D1 is considered being novelty destroying for claims 1-14.
- 1.2. Claims 7-14 of D2 are regardede being novelty destroying for claims 1-5,7-14.
- 1.3. Examples 1,4 (see also tables) of D3 are considred being novelty destroying for claims 1-5, 7-14.
- 1.4. The examples 2,6,7 of D4 are novelty destroying for claims 1-3,7-14.
- 1.5. D5 (see examples 1,4; also claims, tables) destroys novelty for claims 1-14.
- 1.6. Example 8 of D6 is also novelty destroying for claims 1-14.
- 1.7. The compounds resp. compositions disclosed in D1/D2 are considered being mixtures in the sense of current claim 1 under the light of the description. Regarding the examples resp. prepared inks of the current application, single dyes are prepared. It is not clear from the description resp. examples of the current application, where resp. whether resp. which kind of dye mixtures are prepared. Therefore, it seems that the description does not fullfill the criterions as set out in Article 5 PCT.
- 2. It is not at present apparent which part of the application could serve as a basis for a new, allowable claim.